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ON SPECIES OF THE GENUS *HOMALOTYLUS* MAYR, 1876 (HYMENOPTERA: ENCYRTIDAE) FROM THE RUSSIAN FAR EAST

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Two species of the genus *Homalotylus* from the Russian Far East had been earlier identified erroneously by Trjapitzin (1989) and Sharkov & Trjapitzin (1995), viz.: *H. flaminus* (Dalman, 1820) and *H. rubricatus* Sharkov, 1995. The former occurred to be *H. eytelweinii* (Ratzeburg, 1844). New synonymy is proposed: *Homalotylus ephippium* (Ruschka, 1923) = *Homalotylus rubricatus* Sharkov, 1995, **syn. n.**

KEY WORDS: Encyrtidae, *Homalotylus*, synonymy, Russian Far East.

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Два вида из рода *Homalotylus* с Дальнего Востока России были ранее неверно определены Тряпицыным (1989) и Шарковым и Тряпицыным (1995), а именно: *H. flaminus* (Dalman, 1820) и *H. rubricatus* Sharkov, 1995. Первый из них оказался *H. eytelweinii* (Ratzeburg, 1844). Предложена новая синонимия: *Homalotylus ephippium* (Ruschka, 1923) = *Homalotylus rubricatus* Sharkov, 1995, **syn. n.**

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Genus *Homalotylus* Mayr, 1876

Homalotylus Mayr, 1876(1875): 686 (key), 752 (descr.). Type species *Encyrtus flaminus* Dalman, 1820, designated by Ashmead, 1900: 377.

Nobrimus Thomson, 1876(1875): 116, 137. Type species *Encyrtus flaminius* Dalman, 1820, designated by Timberlake, 1919: 134.
Mendozaniella Brèthes, 1913: 97. Type species *Mendozaniella mirabilis* Brèthes, 1913, by monotypy.
Hemaenasoidea Girault, 1916: 307. Type species *Hemaenasoidea oculata* Girault, 1916, by monotypy.
Anisotylus Timberlake, 1919: 170. Type species *Homalotylus similis* Ashmead, 1887, by original designation.
Lepidaphycus Ev. Blanchard, 1936: 13. Type species *Lepidaphycus bosqi* Ev. Blanchard, 1936, by original designation and monotypy.
Neoaenasioidea Agarwal, 1966: 71. Type species *Neoaenasioidea indica* Agarwal, 1966, by original designation.

NOTES. The genus belongs to the subfamily Encyrtinae, the tribe Homalotylini. Forty-two species of *Homalotylus* have been described in the world fauna, 20 are known from the Palearctic region. Thirty species of *Homalotylus* were reared from larvae and pupae of ladybirds (Coleoptera: Coccinellidae), presumably all as primary endoparasitoids, although development of preimaginal stages has been studied only for *H. eytelweinii* in Moldova by Gontsharenko & Bitshina (1983, as *Homalotylus* sp.). One old communication (Walker, 1838) about the rearing of *H. flaminius* in England from the pupa of *Galeruca californiensis* Walker (Coleoptera: Chrysomelidae) needs confirmation.

A key to Palearctic species of the genus *Homalotylus* was published by Trjapitzin (1989), but *H. flaminius* is mixed there with *H. eytelweinii*, as well as on the map of distribution of *H. flaminius* in the USSR and some adjacent countries (Trjapitzin & Semyanov, 1982).

1. *Homalotylus eytelweinii* (Ratzeburg, 1844)

NOTES. Kuznetsov (1975, 1987) reared this species under the name of *Homalotylus flaminius* from *Coccinella septempunctata* Linnaeus, 1758 in Primorskii krai and from *Chilocorus kuwanae* Silvestri, 1909 on Sakhalin. In both cases I identified it for him erroneously, because had a possibility to study exactly determined specimens of *H. flaminius* and *H. eytelweinii* only in 1996 in the collection of the Natural History Museum in London.

Homalotylus eytelweinii is widely distributed in Palearctic region and found also in Indo-Malayan, Afrotropical and Neotropical regions. It parasitizes coccinellids from the tribes Coccinellini, Chilacorini, and Psylloborini. Hind tarsi of *H. eytelweinii* are dark (white in *H. flaminius*). The differences in the biology of these species are significant (Klausnitzer, 1969). A detail description of a female of *H. eytelweinii* (from Guatemala) was published recently (Trjapitzin & Ruíz Cancino, 2003). *Homalotylus flaminius* has not yet been redescribed properly.

Trjapitzin (1967) recorded *Homalotylus flaminius* in Primorskii krai from the Tachingouz [Lazovsky reserve, Proselochnaya] and Ussuriisk. In the latter case it was reared from larvae of *Harmonia axyridis* (Pallas, 1773) almost certainly by K.E. Voronin. These data ought to be checked.

2. *Homalotylus ephippium* (Ruschka, 1923)

NOTES. This species had been described from Germany (Ruschka, 1923, as *Echthroplexis*) and was recorded later from Sweden, Czech Republic, Hungary, Croatia, Montenegro, Bulgaria, Russia (Leningrad Province, Yakutia), Moldova, and Iran. The only data concerning biology of *Homalotylus ephippium* came from Iran, where it was reared from *Exochomus quadripustulatus* (Linnaeus, 1758) (Coccinellidae) associated with the mealybug *Planococcus vovae* (Nassonov, 1908) (Homoptera: Pseudococcidae) on cypress tree (Cupressaceae) (Fallahzadeh & Japoshvili, 2010). An excellent total drawing of *H. ephippium* was made and published by Erdős (1964, as *Echthroplexis*).

Sharkov (in Sharkov & Trjapitzin, 1995) described *Homalotylus rubricatus* Sharkov, 1995 as a new species from Primorskii krai. The description, in the key, was based on one female (holotype) labelled in Russian: [S. Primorye, Ussuriisk district, settlement Gornotayozhnoye, 24.VI.1983 (Sharkov), antenna and a fore wing in microscopic slide No. 2970, Zoological Institute RAS, St. Petersburg]. I found this specimen in the collection of Zoological Institute. It was not labeled as the holotype, but it is undoubtedly the specimen from which the description of *H. rubricatus* has been made. So, I attached to it the label written by my own hand: "*Homalotylus rubricatus* Sharkov, Holotypus" (red label). I compared it with specimens of *H. ephippium* from the collection of Zoological Institute. It occurred to be conspecific with them, and here I formally synonymyze *H. rubricatus* Sharkov, 1995 (**syn. n.**) with *H. ephippium* (Ruschka, 1923).

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